## APPENDIX A - LIST OF PARTIES

Comments: (filed on or before September 12, 1995)

Ad Hoc Coalition of Competitive Carriers (Competitive Carriers)

Arch Communications Group & AirTouch Paging, jointly (Arch/AirTouch Paging)

Association for Local Telecommunications Services (ALTS)

Americas Carriers Telecommunication Association (ACTA)

Ameritech

Association of Public-Safety Communications Officials-International (APCO)

AT&T Corp. (AT&T)

Bell Atlantic Telephone Companies (Bell Atlantic)

Bell Atlantic NYNEX Mobile, Inc. (Bell Atlantic NYNEX Mobile)

California Cable Television Association (CCTA)

Cellular Telecommunications Industry Association (CTIA)

Cincinnati Bell Telephone (Cincinnati Bell)

Citizens Utilities Company (Citizens Utilities)

Competitive Telecommunications Association (CompTel)

The Ericsson Corporation (Ericsson)

Florida Public Service Commission (Florida PSC)

General Communication, Inc. (General Communication)

General Services Administration (GSA)

GO Communications Corporation (GO Communications)

GTE Service Corporation (GTE)

GVNW Inc./Management (GVNW)

Illinois Commerce Commission

Independent Telecommunications Network (ITN)

Interactive Services Association (Interactive Services)

Jones Intercable, Inc. (Jones Intercable)

Kahn, David L. (David Kahn)

LDDS WorldCom

Marion County, Florida (Marion County)

MCI Telecommunications Corporation (MCI)

MFS Communications Company (MFS)

Missouri Public Service Commission (Missouri PSC)

National Association of Regulatory Utility Commissioners (NARUC)

National Cable Television Association (NCTA)

National Exchange Carrier Association (NECA)

National Emergency Number Association (NENA)

National Telephone Cooperative Association (NTCA)

National Wireless Resellers Association (Wireless Resellers)

New York State Department of Public Service (New York DPS)

Nextel Communications (Nextel)

NYNEX Telephone Companies (NYNEX)

Omnipoint Corporation (Omnipoint)

Organization for the Protection and Advancement of

Small Telephone Companies (OPASTCO)

Pacific Bell

Paging Network, Inc. (PageNet)

PCS Primeco, L.P. (PCS Primeco)

Personal Communications Industry Association (PCIA)

Public Utilities Commission of Ohio (Ohio PUC)

Public Utilities Commission of the State of California (California PUC)

Public Utility Commission of Texas (Texas PUC)

SBC Communications, Inc. (SBC Communications)

Scherers Communications Group (Scherers Communications)

Seattle Local Area Number Portability Trial (Seattle LANP Trial)

Sprint Corporation (Sprint)

TDS Telecommunications Corp. (TDS Telecom)

Telecommunications Resellers Association (TRA)

Teleport Communications Group (Teleport)

Telemation International. Inc. (Telemation)

Teleservices Industry Association (Teleservices)

Texas Advisory Commission on

State Emergency Communications (Texas Advisory Commission)

Time Warner Communications Holdings (Time Warner Holdings)

U.S. Airwaves, Inc. (US Airwaves)

US Intelco Networks, Inc. (US Intelco)

US West

United States Small Business Administration.

Chief Counsel for Advocacy (Small Business Administration)

United States Telephone Association (USTA)

Yellow Pages Publishers Association (Yellow Pages)

#### Late filed Comments:

BellSouth Corporation and BellSouth Telecommunications (BellSouth) (filed Sept. 13, 1995)

Replies: (filed on or before October 12, 1995)

**ACTA** 

Competitive Carriers

Ad Hoc Telecommunications Users Committee (Users Committee)

AirTouch Communications & US West NewVector

Group (jointly) (AirTouch/US West NewVector)

Arch/AirTouch Paging

**ALTS** 

Ameritech

AT&T

Bell Atlantic

Bell Atlantic NYNEX Mobile

BellSouth

Cablevision Lightpath, Inc. (Cablevision Lightpath)

**CCTA** 

California PUC

Cincinnati Bell

CTIA

General Communication

GO Communications

**GSA** 

**GTE** 

Interactive Services

ITN

Jones Intercable

David L. Kahn

MCI

**MFS** 

Michigan Public Service Commission Staff (Michigan PSC Staff)

**NARUC** 

**NENA** 

Vertel

Niagara Telephone Co. (Niagara Telephone) (filed Sept. 22, 1995)

Nortel

NYNEX

Ohio PUC

**Omnipoint** 

Pacific Bell

**PageNet** 

**PCIA** 

PCS Primeco

Pennsylvania Public Utility Commission (Pennsylvania PUC)

SBC Communications

Sprint

TRA

Teleport

Texas Advisory Commission

Time Warner Holdings

Time Warner TeleCommunications (Time Warner Telecom)

US Intelco

**USTA** 

# Late Filed Reply Comments:

Maryland Public Service Commission (Maryland PSC) (filed October 13, 1995)

Further Comments: (filed on or before March 29, 1996)

Arch/AirTouch Paging

**ALTS** 

Ameritech

T&TA

Bell Atlantic

Bell Atlantic NYNEX Mobile

BellSouth

**CCTA** 

Cox Enterprises (Cox)

GTE

Interactive Services

MCI

**MFS** 

MobileMedia Communications (MobileMedia)

**NARUC** 

**NCTA** 

**NENA** 

New York DPS

**NYNEX** 

Omnipoint

**OPASTCO** 

Pacific Bell

**PCIA** 

SBC Communications

Sprint

TRA

Teleport

Time Warner Holdings

### USTA

# Late Filed Further Comments:

Georgia Public Service Commission (Georgia PSC) (filed April 1, 1996) Hillborough County, Florida (filed April 1, 1996)

# Further Reply Comments: (filed on or before April 5, 1996)

Arch/AirTouch Paging

Ameritech

**ALTS** 

AT&T

Bell Atlantic

BellSouth

California Department of Consumer Affairs (CA Consumer Affairs)

California PUC

Cincinnati Bell

CTIA

Cox

**GTE** 

MCI

**MFS** 

MobileMedia

**NYNEX** 

Pacific Bell

SBC Communications

Sprint

TRA

Texas Advisory Commission

Time Warner Holdings

US West

**USTA** 

### APPENDIX B - Final Rules

### AMENDMENTS TO THE CODE OF FEDERAL REGULATIONS

### PART 20 - COMMERCIAL MOBILE RADIO SERVICES

Part 20 of Title 47 of the Code of Federal Regulations (C.F.R.) is amended as follows:

1. The authority citation for Part 20 continues to read as follows:

AUTHORITY: Secs. 4. 303, and 332, 48 Stat. 1066, 1082, as amended; 47 U.S.C. 154, 303, and 332, unless otherwise noted.

2. Section 20.15 is amended by adding paragraph (e) to read as follows:

## § 20.15 Requirements under Title II of the Communications Act

(e) For obligations of commercial mobile radio service providers to provide local number portability, see 47 CFR § 52.11.

### PART 52 - NUMBERING

Part 52 of Title 47 of the Code of Federal Regulations (C.F.R.) is added to read as follows:

1. The authority citation for Part 52 is added to read as follows:

AUTHORITY: Section 4, 48 Stat. 1066, as amended; 47 U.S.C. 154, unless otherwise noted. Interpret or apply sec. 153, 154, 201-04, 218, 225-7, 251-2, 271, 48 Stat. 1070, as amended, 1077; 47 U.S.C. 201-04, 218, 225-7, 251-2, 271 unless otherwise noted.

2. The table of contents for Part 52 is added to read as follows:

### Subpart B - Local Number Portability.

§ <b>52.</b> 1	Definitions.
§ 52.3	Deployment of Long-Term Database Methods for Number Portability
	by LECs.
§ 52.5	Database Architecture and Administration.
§ 52.7	Deployment of Transitional Measures for Number Portability.
§ 52.9	Cost Recovery for Transitional Measures for Number Portability.

§ 52.11 Deployment of Long-Term Database Methods for Number Portability by CMRS Providers.

§§ 52.12 - 52.99 [Reserved]

3. Part 52 is added to read as follows:

### Subpart B - Local Number Portability.

### § 52.1 Definitions.

As used in this subpart:

- (a) The term broadband PCS has the same meaning as that term is defined in section 24.5 of this chapter. 47 CFR § 24.5.
- (b) The term cellular service has the same meaning as that term is defined in section 22.99 of this chapter, 47 CFR § 22.9.
- (c) The term database method means a number portability method that utilizes one or more external databases for providing called party routing information.
- (d) The term downstream database means a database owned and operated by an individual carrier for the purpose of providing number portability in conjunction with other functions and services.
- (e) The term incumbent local exchange carrier means, with respect to an area, the local exchange carrier that -- (1) on February 8, 1996, provided telephone exchange service in such area; and (2) (i) on February 8, 1996, was deemed to be a member of the exchange carrier association pursuant to section 69.601(b) of the Commission's regulations (47 CFR 69.901(b)); or (ii) is a person or entity that, on or after February 8, 1996, became a successor or assign of a member described in clause (i).
- (f) The term *local exchange carrier* means any person that is engaged in the provision of telephone exchange service or exchange access. For purposes of this subpart, such term does not include a person insofar as such person is engaged in the provision of a commercial mobile service under 47 U.S.C. § 332(c).
- (g) The term *local number portability administrator (LNPA)* means an independent, non-governmental entity, not aligned with any particular telecommunications industry segment, whose duties are determined by the NANC.
- (h) The term *location portability* means the ability of users of telecommunications services to retain existing telecommunications numbers without impairment of

quality, reliability, or convenience when moving from one physical location to another.

- (i) The term long-term database method means a database method that complies with the performance criteria set forth in section 52.3(a) of this chapter.

  47 CFR § 52.3(a).
- (j) The term North American Numbering Council (NANC) means an advisory committee created under the Federal Advisory Committee Act, 5 U.S.C., App (1988), to advise the Commission and to make recommendations, reached through consensus, that foster efficient and impartial number administration.
- (k) The term *number portability* means the ability of users of telecommunications services to retain, at the same location, existing telecommunications numbers without impairment of quality, reliability, or convenience when switching from one telecommunications carrier to another.
- (1) The term regional database means an SMS database or an SMS/SCP pair that contains information necessary for carriers to provide number portability in a region as determined by the NANC.
- (m) The term service control point (SCP) means a database in the public switched network which contains information and call processing instructions needed to process and complete a telephone call. The network switches access an SCP to obtain such information. Typically, the information contained in an SCP is obtained from the SMS
- (n) The term service management system (SMS) means a database or computer system not part of the public switched network that, among other things: (1) interconnects to an SCP and sends to that SCP the information and call processing instructions needed for a network switch to process and complete a telephone call: and (2) provides telecommunications carriers with the capability of entering and storing data regarding the processing and completing of a telephone call.
- (o) The term service portability means the ability of users of telecommunications services to retain existing telecommunications numbers without impairment of quality, reliability, or convenience when switching from one telecommunications service to another, without switching from one telecommunications carrier to another.
- (p) The term service provider portability means the ability of users of telecommunications services to retain, at the same location, existing telecommunications numbers without impairment of quality, reliability, or convenience when switching from one telecommunications carrier to another.

- (q) The term telecommunications means the transmission, between or among points specified by the user, of information of the user's choosing, without change in the form or content of the information as sent and received.
- (r) The term telecommunications carrier means any provider of telecommunications services, except that such term does not include aggregators of telecommunications services (as defined in 47 U.S.C. § 226(a)(2)).
- (s) The term telecommunications service means the offering of telecommunications for a fee directly to the public, or to such classes of users as to be effectively available directly to the public, regardless of the facilities used.
- (t) The term transitional measure means a method such as Remote Call Forwarding (RCF), Flexible Direct Inward Dialing (DID), or other comparable and technically feasible arrangement that allows one local exchange carrier to transfer telephone numbers from its network to the network of another telecommunications carrier, but does not comply with the performance criteria set forth in section 52.3(a) of this chapter, 47 CFR § 52.3(a).

# § 52.3 Deployment of Long-Term Database Methods for Number Portability by LECs.

- (a) Subject to subsections (b) and (c), all local exchange carriers (LECs) must provide number portability in compliance with the following performance criteria:
  - supports network services, features, and capabilities existing at the time number portability is implemented, including but not limited to emergency services, CLASS features, operator and directory assistance services, and intercept capabilities:
  - (2) efficiently uses numbering resources:
  - (3) does not require end users to change their telecommunications numbers:
  - (4) does not require telecommunications carriers to rely on databases, other network facilities, or services provided by other telecommunications carriers in order to route calls to the proper termination point;
  - (5) does not result in unreasonable degradation in service quality or network reliability when implemented;

- (6) does not result in any degradation in service quality or network reliability when customers switch carriers:
- (7) does not result in a carrier having a proprietary interest;
- (8) is able to migrate to location and service portability; and
- (9) has no significant adverse impact outside the areas where number portability is deployed.
- (b) All LECs must provide a long-term database method for number portability in the 100 largest Metropolitan Statistical Areas (MSAs) by December 31, 1998, in accordance with the deployment schedule set forth in Appendix A to Part 52 of this chapter.
- (c) Beginning January 1, 1999, all LECs must make a long-term database method for number portability available within six months after a specific request by another telecommunications carrier in areas in which that telecommunications carrier is operating or plans to operate.
- (d) The Chief. Common Carrier Bureau, may waive or stay any of the dates in the implementation schedule, as the Chief determines is necessary to ensure the efficient development of number portability, for a period not to exceed 9 months (i.e., no later than September 30, 1999).
- (e) In the event a LEC is unable to meet the Commission's deadlines for implementing a long-term database method for number portability, it may file with the Commission at least 60 days in advance of the deadline a petition to extend the time by which implementation in its network will be completed. A LEC seeking such relief must demonstrate through substantial, credible evidence the basis for its contention that it is unable to comply with the deployment schedule set forth in Appendix A to Part 52 of this chapter. Such requests must set forth: (1) the facts that demonstrate why the carrier is unable to meet the Commission's deployment schedule: (2) a detailed explanation of the activities that the carrier has undertaken to meet the implementation schedule prior to requesting an extension of time: (3) an identification of the particular switches for which the extension is requested: (4) the time within which the carrier will complete deployment in the affected switches; and (5) a proposed schedule with milestones for meeting the deployment date.
- (f) The Chief, Common Carrier Bureau, shall monitor the progress of local exchange carriers implementing number portability, and may direct such carriers to take any actions necessary to ensure compliance with the deployment schedule set forth in Appendix A to Part 52 of this chapter.

(g) Carriers that are members of the Illinois Local Number Portability Workshop must conduct a field test of any technically feasible long-term database method for number portability in the Chicago, Illinois, area concluding no later than August 31, 1997. The carriers participating in the test must jointly file with the Common Carrier Bureau a report of their findings within 30 days following completion of the test. The Chief, Common Carrier Bureau, shall monitor developments during the field test.

### § 52.5 Database Architecture and Administration.

- (a) The North American Numbering Council (NANC) shall direct establishment of a nationwide system of regional SMS databases for the provision of long-term database methods for number portability.
- (b) All telecommunications carriers shall have equal and open access to the regional databases.
- (c) The NANC shall select a local number portability administrator(s) (LNPA(s)) to administer the regional databases within seven months of the initial meeting of the NANC.
- (d) The NANC shall determine whether one or multiple administrator(s) should be selected, whether the LNPA(s) can be the same entity selected to be the North American Numbering Plan Administrator, how the LNPA(s) should be selected, the specific duties of the LNPA(s), the geographic coverage of the regional databases, the technical interoperability and operational standards, the user interface between telecommunications carriers and the LNPA(s), the network interface between the SMS and the downstream databases, and the technical specifications for the regional databases.
- (e) Once the NANC has selected the LNPA(s) and determined the locations of the regional databases, it must report its decisions to the Commission.
- (f) The information contained in the regional databases shall be limited to the information necessary to route telephone calls to the appropriate telecommunications carriers. The NANC shall determine what specific information is necessary.
- (g) Any state may opt out of its designated regional database and implement a state-specific database. A state must notify the Common Carrier Bureau and NANC that it plans to implement a state-specific database within 60 days from the release date of the Public Notice issued by the Chief. Common Carrier Bureau, identifying the administrator selected by the NANC and the proposed locations of

the regional databases. Carriers may challenge a state's decision to opt out of the regional database system by filing a petition with the Commission.

- (h) Individual state databases must meet the national requirements and operational standards recommended by the NANC and adopted by the Commission. In addition, such state databases must be technically compatible with the regional system of databases and must not interfere with the scheduled implementation of the regional databases.
- (i) Individual carriers may download information necessary to provide number portability from the regional databases into their own downstream databases. Individual carriers may mix information needed to provide other services or functions with the information downloaded from the regional databases at their own downstream databases. Carriers may not withhold any information necessary to provide number portability from the regional databases on the grounds that such data has been combined with other information in its downstream database.

# § 52.7 Deployment of Transitional Measures for Number Portability.

(a) All LECs shall provide transitional measures, which may consist of Remote Call Forwarding (RCF), Flexible Direct Inward Dialing (DID), or any other comparable and technically feasible method, as soon as reasonably possible upon receipt of a specific request from another telecommunications carrier, until such time as the LEC implements a long-term database method for number portability in that area.

# § 52.9 Cost Recovery for Transitional Measures for Number Portability.

- (a) Any cost recovery mechanism for the provision of number portability pursuant to section 52.7(a) of this chapter, 47 CFR § 52.7(a), that is adopted by a state commission must not:
- (1) give one telecommunications carrier an appreciable, incremental cost advantage over another telecommunications carrier, when competing for a specific subscriber (i.e., the recovery mechanism may not have a disparate effect on the incremental costs of competing carriers seeking to serve the same customer); or
- (2) have a disparate effect on the ability of competing telecommunications carriers to earn a normal return on their investment.

# § 52.11 Deployment of Long-Term Database Methods for Number Portability by CMRS Providers.

- (a) By June 30, 1999, all cellular, broadband PCS, and covered SMR providers must provide a long-term database method for number portability, including the ability to support roaming, in compliance with the performance criteria set forth in section 52.3(a) of this chapter, 47 CFR § 52.3.
- (b) By December 31, 1998, all cellular, broadband PCS, and covered SMR providers (as defined in <u>Interconnection and Resale Obligations Pertaining to Commercial Mobile Radio Services</u>, First Report and Order, CC Docket 94-54, FCC 96-263 (adopted June 12, 1996)) must have the capability to obtain routing information, either by querying the appropriate database themselves or by making arrangements with other carriers that are capable of performing database queries, so that they can deliver calls from their networks to any party that has retained its number after switching from one telecommunications carrier to another.
- (c) The Chief. Wireless Telecommunications Bureau, may waive or stay any of the dates in the implementation schedule, as the Chief determines is necessary to ensure the efficient development of number portability, for a period not to exceed 9 months (i.e., no later than September 30, 1999, for the deadline in subsection (b), and no later than March 31, 2000, for the deadline in subsection (a)).
- (d) In the event a carrier subject to subsections (a) and (b) is unable to meet the Commission's deadlines for implementing a long-term number portability method, it may file with the Commission at least 60 days in advance of the deadline a petition to extend the time by which implementation in its network will be completed. A carrier seeking such relief must demonstrate through substantial, credible evidence the basis for its contention that it is unable to comply with subsections (a) and (b). Such requests must set forth: (1) the facts that demonstrate why the carrier is unable to meet our deployment schedule: (2) a detailed explanation of the activities that the carrier has undertaken to meet the implementation schedule prior to requesting an extension of time: (3) an identification of the particular switches for which the extension is requested: (4) the time within which the carrier will complete deployment in the affected switches: and (5) a proposed schedule with milestones for meeting the deployment date.
- (e) The Chief, Wireless Telecommunications Bureau, may establish reporting requirements in order to monitor the progress of cellular, broadband PCS, and covered SMR providers implementing number portability, and may direct such carriers to take any actions necessary to ensure compliance with this deployment schedule.

§§ 52.12 - 52.99 [Reserved]

# APPENDIX A to Part 52 — Deployment Schedule for Long-Term Database Methods for Local Number Portability

Implementation must be completed by the carriers in the relevant MSAs during the periods specified below:

10/97-12/97		1/98-3/98		4/98-6/98	
Chicago, IL	3	Detroit. MI Akron. OH	6 20	Indianapolis, IN Milwaukee, WI Columbus, OH	34 35 38
Philadelphia, PA	4	Washington, DC Baltimore, MD	5 1 <b>8</b>	Pittsburgh. PA Newark. NJ Norfolk. VA	19 25 32
Atl <b>anta</b> , GA	8	Miami. FL Fort Lauderdale. FL Orlando. FL	24 39 40	New Orleans, LA Charlotte, NC Greensboro, NC Nashville, TN	41 43 48 51
				Las Vegas, NV	5 <b>0</b>
		Cincinnati, OH	<b>30</b>		
		Tampa, FL	23		
New York. NY	2	Boston, MA	9	Nassau, NY Buffalo, NY	13 <del>14</del>
Los A <b>ngeles.</b> CA	1	Riverside, CA San Diego, CA	10 14	Orange Co. CA Oakland. CA San Francisco, CA	15 21 29
				Rochester, NY	49
Houston, TX	, 7	Dallas, TX St. Louis, MO	11 16	Kansas City, KS Fort Worth, TX	2 <b>8</b> 33
				Hartford, CT	46
Minneapolis, MN	12	Phoenix, AZ Seattle, WA	17 22	Denver, CO Portland, OR	26 27

7/98-9/98		10/98-12/98	
Grand Rapids, MI Dayton, OH Cleveland, OH Garv, IN	56 61 73 80	Toiedo, OH Youngstown, OH Ann Arbor, MI Fort Wayne, IN	81 85 95 100
Bergen, NJ 42 Middlesex, NJ Monmouth, NJ Richmond, VA	52 54 63	Scranton, PA Allentown, PA Harrisburg, PA Jersey City, NJ	78 82 83 88
Memphis, TN Louisville, KY Jacksonville, FL	53 57 58	Wilmington, DE  Greenville, SC  Knoxville, KY  Baton Rouge, LA	67 79 87
Raleigh, NC West Palm Beach, FL Birmingham, AL	5 <b>9</b>	Charleston, SC Sarasota, FL Mobile, AL Columbia, SC	92 93 96 98
Honolulu, HI	65	Tulsa, OK	70
Providence, RI Albany, NY	47 64	Syracuse, NY Springfield, MA	69 86
San Jose, CA Sacramento, CA Fresno, CA	31 3 <b>6</b> 6 <b>8</b>	Ventura, CA Bakersfield, CA Stockton, CA Vallejo, CA	72 84 94 99
San Antonio, TX Oklahoma City, OK Austin, TX	37 55 <b>60</b>	El Paso, TX Little Rock, AR Wichita, KS	74 90 97
Salt Lake City, UT Tucson, AZ	45 71	New Haven, CT Omaha, NE Albuquerque, NM Tacoma, WA	75 76 77

### APPENDIX C - Regulatory Flexibility Act Analysis

### A. Final Analysis of First Report and Order

- 1. As required by Section 603 of the Regulatory Flexibility Act, 5
  U.S.C. § 603 (RFA), an Initial Regulatory Flexibility Analysis (IRFA) was incorporated in the Notice. The Commission sought written public comments on the proposals in the Notice, including the Initial Regulatory Flexibility Analysis. The Commission's Final Regulatory Flexibility Analysis (FRFA) in this First Report and Order is as follows:
- 2. Need for and Objectives of Rules: The Commission, in compliance with sections 251(b)(2) and 251(d)(1) of the Communications Act of 1934, as amended by the Telecommunications Act of 1996 (the Act), adopts rules and procedures intended to ensure the prompt implementation of telephone number portability with the minimum regulatory and administrative burden on telecommunications carriers. These rules are necessary to implement the provision in the Telecommunications Act of 1996 (1996 Act) requiring local exchange carriers (LECs) to offer number portability, if technically feasible. In implementing the statute, the Commission has the responsibility to adopt rules that will implement most quickly and effectively the national telecommunications policy embodied in the Act and to promote the pro-competitive, deregulatory markets envisioned by Congress. Congress has recognized that number portability will lower barriers to entry and promote competition in the local exchange marketplace.
- 3. Summary of Significant Issues Raised by the Public in Response to the IRFA: There were no comments submitted in response to the Initial Regulatory Flexibility Analysis. The Chief Counsel for Advocacy of the United States Small Business Administration filed comments on the Notice which generally support the actions we take in this First Report and Order. However, in their general comments, some commenters suggested a course of action which may result in less of an impact on small entities. Specifically, prior to passage of the 1996 Act, some LECs asserted that the Commission should neither adopt, nor direct the adoption of, number portability without performing a thorough cost/benefit analysis. Most parties, however, now agree that the 1996 Act clearly directs the Commission to implement long-term number portability. In the Report and Order, we concluded that Congress has determined that the Commission

Our final analysis conforms to the RFA, as amended by the Contract With America Advancement Act of 1996, P.L. No. 104-121, 110 Stat. 847 (1996) (CWAAA). Subtitle II of CWAAA is "The Small Business Regulatory Enforcement Fairness Act of 1996" (SBREFA).

Bell Atlantic Comments at 18-19; NYNEX Comments at 15-16; NYNEX Reply Comments at 14; SBC Communications Comments at 10.

<sup>&</sup>lt;sup>3</sup> See, e.g., Bell Atlantic Further Comments at 2; NCTA Further Comments at 2; Omnipoint Further Comments at 2.

should develop a national number portability policy and has specifically directed us to prescribe the requirements that all local exchange carriers, both incumbents and others, must meet to satisfy their statutory obligations. Moreover, section 251(e)(1)'s assignment to the Commission of exclusive jurisdiction over that portion of the North American Numbering Plan (NANP) that pertains to the United States gives us authority over the implementation of number portability to the extent that such implementation will affect the NANP.

- 4. Description and Estimate of Number of Small Businesses to Which Rules Will Apply: The Regulatory Flexibility Act generally defines the term "small business" as having the same meaning as the term "small business concern" under the Small Business Act. 15 U.S.C. § 632. A small business concern is one which (1) is independently owned and operated; (2) is not dominant in its field of operation; and (3) satisfies any additional criteria established by the Small Business Administration (SBA). Id. According to the SBA's regulations, entities engaged in the provision of telephone service may have a maximum of 1.500 employees in order to qualify as a small business concern. 13 C.F.R. § 121.201. This standard also applies in determining whether an entity is a small business for purposes of the Regulatory Flexibility Act.
- 5. Our rules governing long-term number portability apply to all LECs, including incumbent LECs as well as new LEC entrants, and also apply to cellular, broadband PCS, and covered SMR providers. According to the SBA definition, incumbent LECs do not qualify as small businesses because they are dominant in their field of operation. Accordingly, we will not address the impact of these rules on incumbent LECs.
- 6. However, our rules may have a significant economic impact on a substantial number of small businesses insofar as they apply to telecommunications carriers other than incumbent LECs. The rules may have such an impact upon new entrant LECs, as well as cellular, broadband PCS, and covered SMR providers. Based upon data contained in the most recent census and a report by the Commission's Common Carrier Bureau, we estimate that 2,100 carriers could be affected. We have derived this estimate based on the following analysis:
- 7. According to the 1992 Census of Transportation, Communications, and Utilities, there were approximately 3,469 firms with under 1,000 employees operating under the Standard Industrial Classification (SIC) category 481 -- Telephone. See U.S. Dept. of Commerce, Bureau of the Census, 1992 Census of Transportation, Communications, and Utilities (issued May 1995). Many of these firms are the incumbent LECs and, as noted above, would not satisfy the SBA definition of a small business

<sup>&</sup>lt;sup>4</sup> See 47 U.S.C. § 251(b)(2), (d).

<sup>&</sup>lt;sup>5</sup> See 47 U.S.C. § 251(e)(1).

because of their market dominance. There were approximately 1,350 LECs in 1995. Industry Analysis Division, FCC, Carrier Locator: Interstate Service Providers at Table 1 (Number of Carriers Reporting by Type of Carrier and Type of Revenue) (December 1995). Subtracting this number from the total number of firms leaves approximately 2.119 entities which potentially are small businesses which may be affected. This number contains various categories of carriers, including competitive access providers, cellular carriers, interexchange carriers, mobile service carriers, operator service providers, pay telephone operators, PCS providers, covered SMR providers, and resellers. Some of these carriers — although not dominant — may not meet the other requirement of the definition of a small business because they are not "independently owned and operated." See 15 U.S.C. § 632. For example, a PCS provider which is affiliated with a long distance company with more than 1,000 employees would be disqualified from being considered a small business. Another example would be if a cellular provider is affiliated with a dominant LEC. Thus, a reasonable estimate of the number of "small businesses" affected by this Order would be approximately 2,100.

8. Description of Projected Reporting, Recordkeeping and Other Compliance Requirements of the Rules: There are several reporting requirements imposed by the Report and Order. It is likely that the entities filling the reports will require the services of persons with technical expertise to prepare the reports. First, carriers participating in a field test in the Chicago, Illinois, area are required to file with the Commission a report of their findings within 30 days after completion of the test. At this time, it is not clear how many carriers will be participating, but it is likely to include several new entrant LECs and the dominant incumbent LEC in the region. Second, after December 31, 1998, longterm number portability must be provided by LECs outside of the 100 largest MSAs within six months after a specific request by another telecommunications carrier in which the requesting carrier is operating or plans to operate. The request specifically must request long-term number portability, identify the discrete geographic area covered by the request, and provide a tentative date six or more months in the future when the carrier expects to need number portability in order to port prospective customers. Third, state regulatory commissions must file with the Commission a notification if they opt to develop a state-specific database in lieu of participating in a regional database system. Carriers that object to a state decision to opt out of the regional database system may file with the Commission a petition for relief. Fourth, the item requires any administrator selected by a state prior to the release of the Report and Order, that wishes to bid for administration of one of the regional databases, must submit a new proposal in accordance with the guidelines established by the NANC. We expect that only one entity, Lockheed Martin, will be subject to this requirement since it is the only administrator which has been selected by a state to date. Fifth, the Report and Order requires carriers that are unable to meet the deadlines for implementing a long-term number portability solution to file with the Commission at least 60 days in advance of the deadline a petition to extend the time by which implementation in its network will be completed. Finally, we require an industry body known as the Industry Numbering Committee (INC) to file a report with

the Commission on the portability of non-geographic numbers assigned to LECs within 12 months after the effective date of the Report and Order.

- 9. Steps Taken to Minimize Impact on Small Entities Consistent with Stated Objectives: The Commission's actions in this Report and Order will benefit small entities by facilitating their entry into the local exchange market. The record in this proceeding indicates that the lack of number portability would deter entry by competitive providers of local service because of the value customers place on retaining their telephone numbers. These competitive providers, many of which may be small entities, may find it easier to enter the market as a result of number portability which will eliminate this barrier to entry.
- a minimum. For example, we have adopted a phased deployment schedule which requires long-term number portability to be implemented initially in the 100 largest MSAs, and then elsewhere upon a carrier's request. The provision of currently available measures is conditioned upon request only. In addition, we have attempted to minimize the impact of our rules upon cellular, broadband PCS, and covered SMR providers, which may be small businesses, by not requiring such carriers to offer currently available number portability measures. Similarly, paging and messaging service providers, which may be small entities, are required to provide neither currently available measures nor long-term number portability under our rules. The regulatory burdens we have imposed are necessary to ensure that the public receives the benefit of the expeditious provision of service provider number portability in accordance with the statutory requirements.

# B. Initial Analysis of Further Notice of Proposed Rulemaking

11. Pursuant to section 603 of the Regulatory Flexibility Act, 5 U.S.C. § 603, the Commission has prepared the following Initial Regulatory Flexibility Analysis (IRFA) of the expected impact on small entities of the policies and rules proposed in the Further Notice of Proposed Rulemaking (Further Notice). Written public comments are requested on the IRFA. These comments must be filed in accordance with the same filing deadlines as comments on the remainder of the Further Notice, but they must have a separate and

In the Report and Order, the Commission delegates authority to the Wireless Telecommunications

Bureau to require reports from cellular, PCS, and covered SMR providers in order to monitor the progress of these providers toward implementing long-term number portability. These reporting requirements are not defined in sufficient detail in the Report and Order to obtain approval from the Office of Management and Budget. Separate approval will be requested when the specific requirements are imposed by the Wireless Telecommunications Bureau.

See First Report and Order and Further Notice of Proposed Rulemaking, CC Docket No. 95-116, FCC 96-286 at ¶ 31 (rel. July 2, 1996).

See id. at ¶ 28-30.

distinct heading designating them as responses to the regulatory flexibility analysis. The Secretary shall cause a copy of the Further Notice; including the IRFA, to be sent to the Chief Counsel for Advocacy of the Small Business Administration in accordance with section 603(a) of the Regulatory Flexibility Act.

- Reason for Action: The Commission, in compliance with sections 251(b)(2) and 251(d)(1) of the Act, proposes rules and procedures intended to ensure the prompt implementation of telephone number portability with the minimum regulatory and administrative burden on telecommunications carriers. The rules proposed in the Further Notice are necessary to implement section 251(e)(2) of the Act, which requires that the costs of number portability be borne by all telecommunications carriers on a competitively neutral basis.
- Objectives and Legal Basis for Proposed Rules: The Commission's objective in issuing the Further Notice is to propose and seek comment on rules establishing a cost recovery mechanism for carriers to use in implementing a long-term number portability method pursuant to the Act and in accordance with our Report and Order in this proceeding. Specifically, our goal is to propose rules which implement section 251(e)(2) of the Act, requiring that the cost of "number portability be borne by all telecommunications carriers on a competitively neutral basis as determined by the Commission." 47 U.S.C. § 251(e)(2). The legal basis for action as proposed in the Further Notice is contained in sections 1, 4(i), 4(j), 201-205, 218, 251(b), 251(e), and 332 of the Communications Act of 1934, as amended. 47 U.S.C. §§ 151, 154(i), 154(j), 201-205, 218, 251(b), 251(d), 251(e), 332.
- discussed above in the Final Regulatory Flexibility Act Analysis for the Report and Order, our rules governing long-term number portability apply to all LECs, including incumbent LECs as well as new LEC entrants, and also apply to cellular, broadband PCS, and covered SMR providers. According to the SBA definition, incumbent LECs do not qualify as small businesses because they are dominant in their field of operation. Accordingly, we will not address the impact of these rules on incumbent LECs.
- 15. However, our rules may have a significant economic impact on a substantial number of small businesses insofar as they apply to telecommunications carriers other than incumbent LECs. The rules may have such an impact upon new entrant LECs as well as cellular, broadband PCS, and covered SMR providers. Based upon data contained in the most recent census and a report by the Commission's Common Carrier Bureau, we estimate that 2,100 carriers could be affected. See supra \$\frac{11}{2}\$ 4-7 (discussion of estimated number of small businesses affected). We request comment on this estimate. These entities could include various categories of carriers, including competitive access providers, cellular carriers, interexchange carriers, mobile service carriers, operator service providers, pay telephone operators, PCS providers, covered SMR providers, and resellers. The SIC codes which describe these groups are 4812 and 4813.

- Further Notice requests comment on the appropriate method by which the costs of long-term number portability should be recovered. One possible cost recovery method would be based upon a percentage of a carrier's gross revenues. Such a rule, if promulgated, would not impose a reporting requirement on LECs because they already file information about gross revenues with the Commission for other purposes. There are no other reporting requirements contemplated by the Further Notice.
- 17. Federal Rules Which Overlap, Duplicate or Conflict with these Rules: None.

# APPENDIX D-- 100 LARGEST METROPOLITAN STATISTICAL AREAS (MSAs) AND THEIR POPULATIONS

1.	Los Angeles, CA 9.150	0,000	40.	Oriando. FL	1.361.000
	New York, NY	8.584.000	41.	New Orleans. LA	1 <b>.309.000</b>
3.	Chicago, IL	7 <b>.668.000</b>	42.	Bergen, NJ	1.3 <b>04.000</b>
4.	Philadelphia, PA	4,949,000	43.	Charlotte, NC	1.260.000
5.	Washington, DC	4,474,000	44.	Buffalo, NY	1.189.000
6.	Detroit, MI	4,307,000	45.	Salt Lake City, UT	1.178.000
7.	Houston, TX	3 <b>,653.000</b>	46.	Hartford, CT*	1.156.000
8.	Atlanta, GA	3.331.000	47.	Providence, RI*	1.131.000
9.	Boston, MA*	3 <b>.211,000</b>	<b>48.</b>	Greensboro, NC	1.107.000
10.	Riverside. CA	2.907.000	<b>49</b> .	Rochester, NY	1.090.000
11.	Dallas, TX	2,898,000	5 <b>0</b> .	Las Vegas, NV	1.076.000
12.	Minneapolis, MN	2.688,000	51.	Nashville. TN	1.070.000
13.	Nassau. NY	2.651.000	5 <b>2</b> .	Middlesex, NJ	1.069.000
14.	San Diego. CA	2.621,000	53.	Memphis. TN	1.056.000
15.	_	2.543,000	5 <b>4</b> .	Monmouth, NJ	1.035.000
16.	St. Louis, MO	2.536,000	5 <b>5</b> .	Oklahoma City, OK	1.007.000
17.	Phoenix, AZ	2.473,000	5 <b>6</b> .	Grand Rapids. MI	985,000
18.	Baltimore, MD	2,458,000	5 <b>7</b> .	Louisville, KY	9 <b>81.000</b>
19.	Pittsburgh, PA	2,402,000	5 <b>8</b> .	Jacksonville. FL	9 <b>72.000</b>
20.	Akron, OH	2,222,000	5 <b>9</b> .	Raleigh, NC	9 <b>65.000</b>
21.	Oakland, CA	2,182,000	<b>60</b> .	Austin, TX	9 <b>64.000</b>
22.	Seattle, WA	2,180,000	61.	Dayton, OH	956.000
23.	Tampa, FL	2.157,000	62.	West Palm Beach. FL	9 <b>55.000</b>
24.	Miami, FL	2.025.000	63.	Richmond, VA	917.000
25.	Newark. NJ	1.934.000	<b>64</b> .	Albany, NY	8 <b>75.000</b>
26.	Denver. CO	1.7 <b>96,000</b>	6 <b>5</b> .	Honolulu. HI	874.0 <b>00</b>
27.	Portland, OR	1.676.000	6 <b>6</b> .	Birmingham. AL	872.000
28.	Kansas City, KS	1,647,000	<b>67</b> .	Greenville, SC	837.000
29.	San Francisco, CA	1.646.000	6 <b>8</b> .	Fresno, CA	835.000
<b>30</b> .	Cincinnati, OH	1.581,000	<b>69</b> .	Syracuse, NY	7 <b>54.000</b>
31.	San Jose, CA	1.557,000	<b>70</b> .	Tulsa, OK	<b>743,000</b>
32.	Norfolk, VA	1.529,000	71.	Tucson, AZ	732,000
3 <b>3</b> .	Fort Worth, TX	1,464,000	72.	Ventura, CA	703,000
34.	Indianapolis, IN	1.462,000	73.	Cleveland, OH	677,000
3 <b>5</b> .	Milwaukee, WI	1.456,000	74.	El Paso, TX	665,000
36.	Sacramento, CA	1,441,000	75.	Omaha, NE	663.000
37.	San Antonio, TX	1,437,000	76.	Albuquerque, NM	646,000
38.	Columbus, OH	1,423,000	77.	Tacoma, WA	638,000
39.	Fort Lauderdale, FL	1,383,000	78.	Scranton, PA	637,000

<b>79</b> .	Knoxville, TN	631,000
<b>80</b> .	Gary, IN 620.000	
81.	Toledo, OH	614,000
82.	Allentown, PA	612.000
83.	Harrisburg, PA	610.000
84.	Bakersfield, CA	609.000
85.	Youngstown, OH	604,000
<b>86</b> .	Springfield, MA*	5 <b>84,000</b>
<b>87</b> .	Baton Rouge, LA	5 <b>58,000</b>
8 <b>8</b> .	Jersey City, NJ	5 <b>52,000</b>
<b>89</b> .	Wilmington, DE	539,000
90.	Little Rock, AR	53 <b>8,000</b>
91.	New Haven, CT*	5 <b>27.000</b>
92.	Charleston, SC	5 <b>22.000</b>
93.	Sarasota, FL	51 <b>8.000</b>
94.	Stockton, CA	51 <b>8.000</b>
95.	Ann Arbor, MI	51 <b>5,000</b>
<b>96</b> .	Mobile, AL	51 <b>2.000</b>
<b>97</b> .	Wichita, KS	507.000
<b>98</b> .	Columbia, SC	486,000
9 <b>9</b> .	Vallejo, CA	483.000
100.	Fort Wayne, IN	469,000

<sup>\*</sup> Population figures for New England's city and town based MSAs are for 1992, while others are for 1994.

### APPENDIX E - DESCRIPTION OF NUMBER PORTABILITY METHODS:

#### 1. Database methods

- 1. Location Routing Number (LRN). Under AT&T's LRN proposal, a carrier seeking to route a call to a ported number queries or "dips" an external routing database. obtains a ten-digit location routing number for the ported number, and uses that location routing number to route the call to the end office switch which serves the called party.1 The carrier dipping the database may be the originating carrier, the terminating carrier, or the N-1 carrier (the carrier prior to the terminating carrier). Under the LRN method, a unique location routing number is assigned to each switch. For example, a local service provider receiving a 7-digit local call, such as 887-1234, would examine the dialed number to determine if the NPA-NXX is a portable code.2 If so, the 7 digit dialed number would be prefixed with the NPA and a 10-digit query (e.g., 679-887-1234) would be launched to the routing database. The routing database then would return the LRN (e.g., 679-267-0000) associated with the dialed number which the local service provider uses to route the call to the appropriate switch. The local service provider then would formulate an SS7 call set up message with a generic address parameter, along with the forward call indicator set to indicate that the query has been performed, and route the call to the local service provider's tandem for forwarding.
- 2. LRN is a "single-number solution" because only one number (i.e., the number dialed by the calling party) is used to identify the customer in the serving switch. Each switch has one network address the location routing number. The record and the Industry Numbering Committee (INC) indicate that LRN supports custom local area signalling services (CLASS), emergency services, and operator and directory services, but may result in some additional post-dial delay. LRN can support location and service as

See Notice, 10 FCC Rcd at 12364. See also AT&T Comments at 18-23; AT&T February 6, 1996 Ex Parte Filing at 6-9.

An NXX code, or central office code, is the second three digits of a ten digit telephone number and identifies the service provider switch that serves a specific customer location. See Notice, 10 FCC Rcd at 12354.

This description of call flow employing the LRN method was adapted from the Proposed Final Draft on number portability produced by the Industry Numbering Committee. See INC Report at 49-51.

AT&T Comments at 20; CA LNP Task Force Report at 5; INC Report at 45.

<sup>&</sup>lt;sup>5</sup> INC Report at 45.

well as service provider portability.<sup>6</sup> Finally, LRN supports wireless-wireless-wireless service provider portability.<sup>7</sup>

- 3. Carrier Portability Code (CPC). Under CPC, each local service provider within a given area would be assigned a three-digit Carrier Portability Code (CPC).8 The database serving that area would contain all the telephone numbers that have been transferred from one carrier to another and their corresponding CPCs. A carrier querying the database for purposes of routing a call to a customer that has transferred his or her telephone number would know from the NXX code of the dialed number that the telephone number may have been transferred to another local service provider. The carrier would query a database serving that area, which would return to the carrier a three-digit CPC corresponding to the service provider serving the dialed number. The carrier then would route the call according to the carrier portability code and the dialed NXX code. For example, an IXC delivering a call to the 301 NPA would query the database serving the 301 area code. In return, that database would transmit back to the IXC a ten-digit number consisting of the three-digit NPA replaced with the CPC for the LEC serving that customer, plus the customer's seven-digit telephone number. The IXC then would route the call to the location pre-designated by the terminating carrier based on the six-digit CPC-NXX. Similarly, carriers providing service within the area would query the same database to identify the local service provider responsible for handling specific local calls. 10
- 4. AT&T asserts that CPC is compatible with LRN by permitting adoption of switch trigger mechanisms, switch interfaces, signalling translations, and the development of an SMS to an LRN environment.<sup>11</sup> CPC supports an N-1 call processing scenario, avoids routing calls through incumbent LEC networks, permits carriers to own or provide for their own routing databases, and supports vertical features.<sup>12</sup> On the other hand, the CPC method essentially uses two NPA codes, and therefore precludes use of the second

<sup>° &</sup>lt;u>ld.</u> at 46.

Id. at 45-58; CA LNP Task Force Report at 5-9.

CPC was developed by MCI Metro and its multi-vendor task forces, which included Siemens, Nortel, DSC, and Tandem. INC Report at 80. See also Notice, 10 FCC Red at 12363-64; MCI Comments at 10-15.

Carrier portability codes would identify competing providers of local telephone services within each NPA. The same codes could be used to represent the same company or a different company in other NPAs. INC Report at 80-97. See also CA LNP Task Force Report at 13-14; Notice, 10 FCC Red at 12363-64.

This description of call flow employing the CPC method was adapted from the Proposed Final Draft on number portability produced by the Industry Numbering Committee. See INC Report at 83.

AT&T Comments at 31-32.

<sup>&</sup>lt;sup>2</sup> Id. at 31; INC Report at 81.